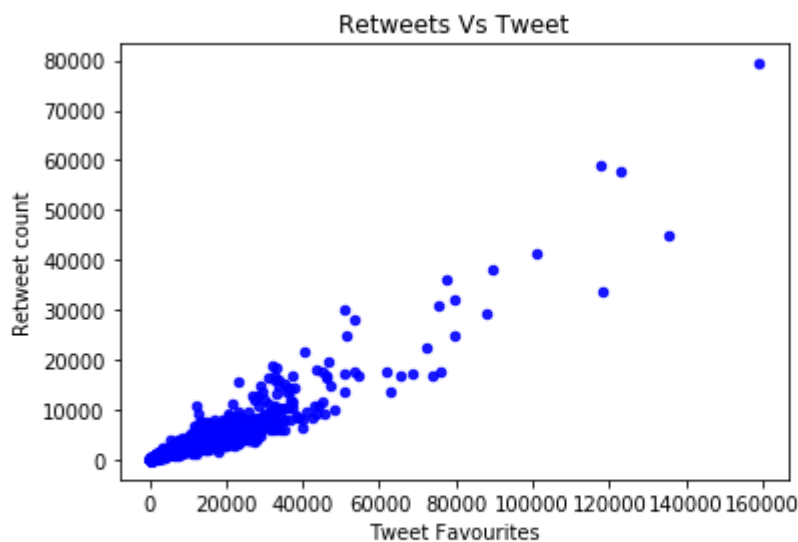# Act Report

The goal for this project is to wrangle WeRateDogs Twitter data to create interesting and trustworthy analyses and visualizations. I will be using Python and its libraries to gather data from a variety of sources and in a variety of formats, assess its quality and tidiness, then clean it.

The dataset that I will be wrangling is the tweet archive of Twitter user @dog_rates, also known as WeRateDogs. WeRateDogs is a Twitter account that rates people's dogs with a humorous comment about the dog. These ratings almost always have a denominator of 10. The numerators, though? Almost always greater than 10. 11/10, 12/10, 13/10, etc. Why? Because "they're good dogs Brent" .WeRateDogs has over 4 million followers and has received international media coverage.

## Analyzing & Visualizing Data¶

### 1. Relation between Retweets & Likes



The scatter plot above shows that the Retweet count and Favourite count are directly proportional.

## 2. Most popular dog name ?

```
Cooper      10
Oliver      10
Charlie     10
Lucy         9
Penny        9
Tucker       9
Winston      8
Sadie        8
Daisy        7
Toby         7
Lola         7
Koda         6
Bella        6
Jax          6
Stanley      6
Name: dog_name, dtype: int64
```

Most popular names are Cooper, Oliver and Charlie with 10 counts.

## 3. Most popular dog breed ?

```
golden_retriever          158
Labrador_retriever        106
Pembroke                   95
Chihuahua                  91
pug                        62
toy_poodle                 50
chow                       48
Pomeranian                 42
Samoyed                    41
malamute                   33
Chesapeake_Bay_retriever   30
cocker_spaniel             30
French_bulldog             30
miniature_pinscher         25
Eskimo_dog                 22
Name: dog_breed, dtype: int64
```

Most popular dog breed is Golden Retriever with 158 counts.

## 4. Most rated dog?

```
719     1776
1710     420
841      204
Name: rating_numerator, dtype: int64
```

| tweet_text | tweet_url | rating_numerator | rating_denominator | dog_name | year | month | day | time | weekday |
|---|---|---|---|---|---|---|---|---|---|
| This is Atticus. He's quite simply America af.... | https://twitter.com/dog_rates/status/749981277... | 1776 | 10 | Atticus | 2016 | 7 | 4 | 15:00:45 | Mon |

The most rated dog's name is Atticus

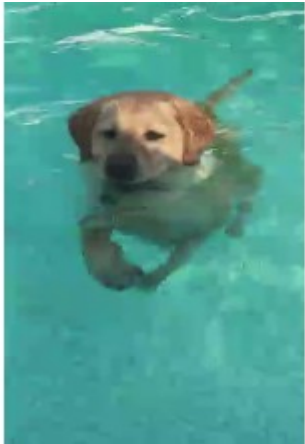*Image of the top rated dog*



*5 : Most favorite dog ?*

*The top favorites count 159086*

```
768     159086
Name: tweet_favorites, dtype: int64
```
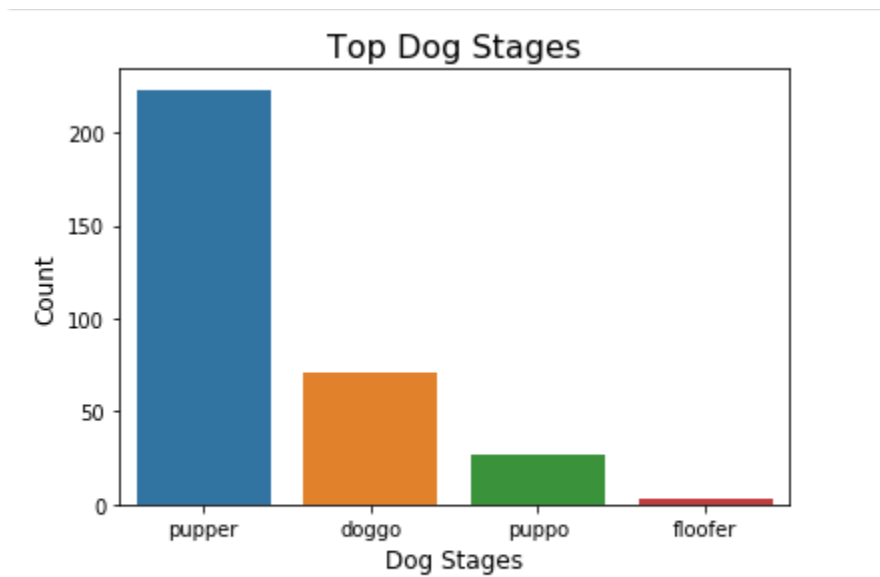
| onth | day | time | weekday | dog_stages | tweet_picture | dog_breed | confidence_level | tweet_favorites | retweet_count |
|---|---|---|---|---|---|---|---|---|---|
| 6 | 18 | 18:26:18 | Sat | doggo | https://pbs.twimg.com/ext_tw_video_thumb/74423... | Labrador_retriever | 0.825333 | 159086 | 79362 |

The favorite dog name is not given.The favorite dog is in the breed: Labrador_retriever.
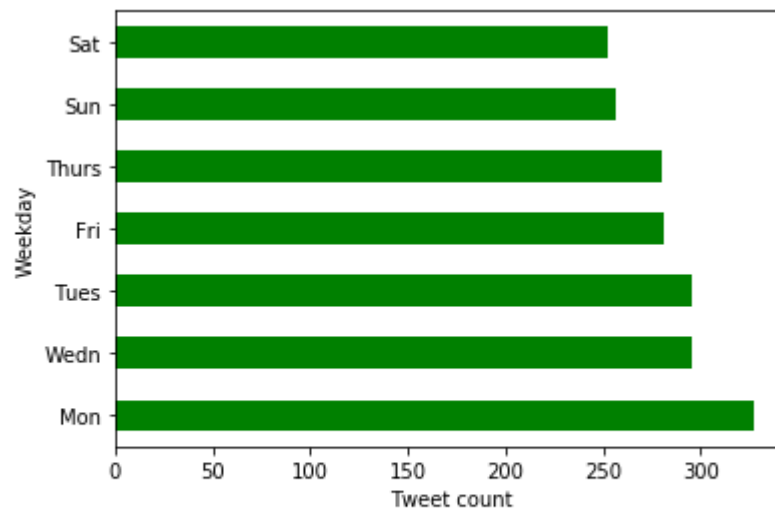
*Image of most favorite dog ?*

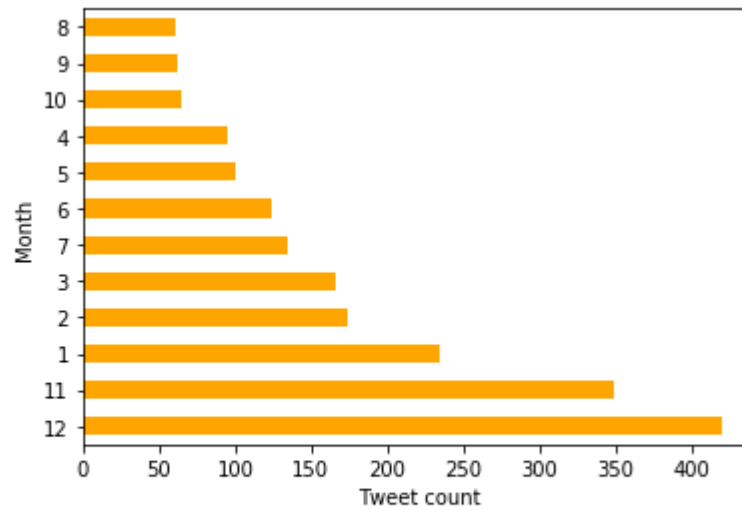*6 : Which stage are most dogs in?*



Top Dog Stages

Most of the dogs are in pupper stage.

*7.      The most popular day to tweet?*



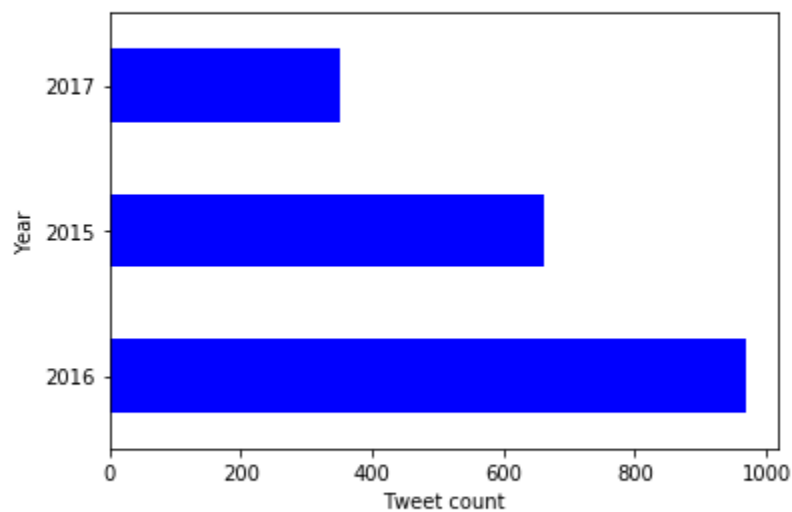The most popular day to tweet is Monday

**8.** *The most popular month to tweet ?*



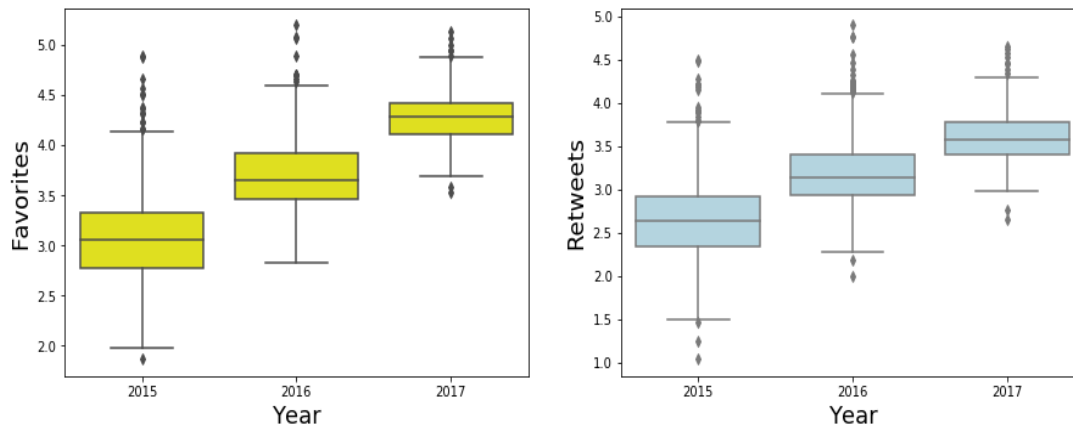The most popular month to tweet is December.

*9. The most popular year to tweet ?*¶

```
2016    971
2015    662
2017    353
Name: year, dtype: int64
```



The most popular year to tweet is 2016

### 10. Comapre favorites and retweets counts over the past 3 years



From above figure,the favourite counts have increased over the years.

## Conclusions

1. From above scatter plot we can know that the Retweet count and Favourite count are directly proportional.

2. Most popular names are Oliver, Charlie, Cooper and Lucy with 10 counts.

3. Most popular dog breed are Golden Retriever.

4. The most rated dog's name is Atticus

5. The favorite dog's breed is Labrador Retriever.

6. Most of the dogs are in pupper stage.

7. Monday is the most popular to tweet.

8. The most popular month to tweet is December.

9. The most popular year to tweet is 2016.

10. Compared to Retweet count the Favourite counts have increased over the years.